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COMMERCE PATENT AND TRADEMARK OFFICE

## RANSMITTAL LETTER TO THE UNITED STATES DESIGNATED/ELECTED OFFICE (DO/EO/US) CENCERNING A FILING UNDER 35 U.S.C. 371

ATTOKNEY'S DOCKET NUMBER

NREL 98-34CIP

U.S. APPLICATION NO. (If known, see 37 CFR 1.5

PRIORITY DATE CLAIMED

3	INTERN	ONAL	APPL	ICATIO	NC	NO
	INTERN	S01/0043	<b>30</b>			
- 1					_	

INTERNATIONAL FILING DATE 21 JANUARY 2000

21 JANUARY 2000

TITLE OF INVENTION	T	IT	LE	OF	INV	'ENT	'ION
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DIRECT PRINTING OF THIN-FILM CONDUCTORS USING METAL-CHELATE INK.

APPLICANT(S)	FOR	DO/	EO/	US
The last	0 1	1	. 1	

	CANT(S) FOR DO/EO/US uglas L. Schulz et al.
	ant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:
1.	This is a FIRST submission of items concerning a filing under 35 U.S.C. 371.
2.	This is a SECOND or SUBSEQUENT submission of items concerning a filing under 35 U.S.C. 371.
3.	This is an express request to begin national examination procedures (35 U.S.C. 371(f)). The submission must include items (5), (6), (9) and (21) indicated below.
4. <u> </u>	The US has been elected by the expiration of 19 months from the priority date (Article 3 1).  A copy of the International Application as filed (35 U.S.C. 371(c)(2))
	a. is attached hereto (required only if not communicated by the International Bureau).
	b. has been communicated by the International Bureau.
	is not required, as the application was filed in the United States Receiving Office (RO/US).
6. 🗙	An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
	a. is attached hereto.
	b. As been previously submitted under 35 U.S.C. 154(d)(4).
7. 🔀	Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3))
	a. are attached hereto (required only if not communicated by the International Bureau).
	b. have been communicated by the International Bureau.
	c. La have not been made; however, the time limit for making such amendments has NOT expired.
	d. A have not been made and will not be made.
8. 🔲	An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371 (c)(3)).
9. 🛛	An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10.	An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).
Iter	ns 11 to 20 below concern document(s) or information included:
11. 🛛	An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
12.	An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13.	A FIRST preliminary amendment.
14.	A SECOND or SUBSEQUENT preliminary amendment.
15.	A substitute specification.
16.	A change of power of attorney and/or address letter.
17.	A computer-readable form of the sequence listing in accordance with PCT Rule l3ter.2 and 35 U.S.C. 1.821 - 1.825.
18.	A second copy of the published international application under 35 U.S.C. 154(d)(4).
19.	A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20.	Other items or information:

Post Card Receipt

THE RECOPCIATE 21 MAR 2002

U.S. APPLICATION TO JIT KEE	r8'87'6	De IN	TERNATIONAL APPLICATION NO.	CT/US01/00430		ATTORNEY'S DOCK	et number 98-34CIP
21. The followi	ng fees are su	ubmitted:			CAI	CULATIONS P	TO USE ONLY
BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)):							
Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2) paid to USPTO and International Search Report not prepare by the EPO or JPO \$1000.00							
International prelim USPTO but Interna	ninary examir ational Search	nation fee (3 h Report pre	37 CFR 1.482) not paid to pared by the EPO or JPO	\$860.00			
International prelim but international se	ninary examir arch fee (37 (	nation fee (3 CFR 1.445(a	37 CFR 1.482) not paid to a)(2)) paid to USPTO	USPTO <b>\$710.00</b>			
International prelin but all claims did n	ninary examin not satisfy pro	nation fee (3 ovisions of F	37 CFR 1.482) paid to USP PCT Article 33(l)-(4)	PTO \$690.00			
			37 CFR 1.482) paid to US				
			Article 33(1)-(4) BASIC FEE AMOU		\$ 14	00.00	
Surcharge of \$130.0	0 for furnishi	ing the oath	or declaration later than	20 30		00.00	
			e (37 CFR 1.492(e)).		\$	· · · · · · · · · · · · · · · · · · ·	
CLAIMS Total claims	NUMBER 25	-20 =	NUMBER EXTRA 5	x \$18.00 9	\$	45.00	
Independent claims	1	-3 =	0	x \$80.00 42	\$	43.00	
MULTIPLE DEPEN	<u> </u>			+ \$270.00	\$	0	
			OF ABOVE CALCU	LATIONS =	\$ 1	45.00	
Applicant claim are reduced by	ns small entit		e 37 CFR 1.27. The fees i		\$		
SUBTOTAL -					\$ 7	2.50	
Processing fee of \$130.00 for furnishing the English translation later than months from the earliest claimed priority date (37 CFR 1.492(f)).					\$		
TOTAL NATIONAL FEE =					\$		
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +				\$			
TOTAL FEES ENCLOSED =					\$ 7	2.50	
						ount to be refunded:	\$
		_				charged:	\$ 72.50
a. A check in the amount of \$ to cover the above fees is enclosed.							
b. Please char A duplicate	rge my Depos e copy of this	sit Account s sheet is end	No. <u>14-1460</u> in closed.	the amount of $\frac{72}{}$	50	to cover the	above fees.
	C. The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. 14-1460. A duplicate copy of this sheet is enclosed.						
d. Fees are to	d. Fees are to be charged to a credit card. WARNING: Information on this form may become public. Credit card						
informatio	information should not be included on this form. Provide credit card information and authorization on PTO-2038.						
	NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been thet, a petition to revive (37 CFR 1.137 (a) or (b)) must be filed and granted to restore the application to pending status.						e (37 CFR A
SEND ALL CORRESP	ONDENCE TO	:		V 0	int	J.W.	<u>ite</u>
Paul J. White				SIGNATU		la.	
National Rene	wable Ener	rgy Labora	atory	Paul J.	. vvni	<u>le</u>	
1617 Cole Blvd	d.	J,	•		•		
Golden, CO 80	)401			30,436 REGISTR		NUMBER	

JC1 C'd PCT/PTO 2 1 MAR 2002

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

RE: International Patent Application of Midwest Research Institute			)	
International A	Application No.:	PCT/US01/00430	)	
International F	Filing Date:	5 January 2000	) ) Atty Docket No. NREL PCT/98-34CI	P
Entitled:	Direct Printing Using Metal-C	of Thin-Film Conduc	tors)	

## **CERTIFICATE OF MAILING UNDER 37 CFR § 1.10**

Express Mail Mailing Label No. EJ200220846US

Date of Deposit 21March 2002

I hereby certify that the following attached items:

- (1) Application [Specification 12 pgs, Claims 2 pgs, Abstract 1 pg]
- (2) 4 sheets of Drawings comprising Figure 1-4
- (3) Transmittal Letter to the United States Designated Elected Office (DO/EO/US) Concerning a Filing Under 35 USC 371 [2 pgs]
- (4) Combined Declaration and Power of Attorney [2 pgs]
- (5) Postcard receipt

have been deposited in the United States Postal Service "Express Mail Post Office to Addressee" service under 37 CFR 1.10 on the date indicated above and addressed to: The Assistant Commissioner for Patents, Box Patent Application, Washington, DC. 20231.

National Renewable Energy Laboratory

Janice F Brown

Patent Administrator

1617 Cole Boulevard Golden, CO 80401 303/384-7576 303/384-4799 (fax)